0590 05/18 OIPE

RAW SEQUENCE LISTING

DATE: 06/15/2001 TIME: 14:35:10

PATENT APPLICATION: US/09/713,794

Input Set : N:\Crf3\RULE60\09713794.txt
Output Set: N:\CRF3\06152001\I713794.raw

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<110> APPLICANT: Batard, Yannick
 5
         Durst, Francis
 6
         Schalk, Michel
 7
         Werck-Reichhart, Daniele
  <120> TITLE OF INVENTION: RECODING OF DNA SEQUENCES PERMITTING
 9
         EXPRESSION IN YEAST AND OBTAINED TRANSFORMED YEAST
10
13 <130> FILE REFERENCE: A32000
15 <140> CURRENT APPLICATION NUMBER: 09/713,794
16 <141> CURRENT FILING DATE: 2000-11-15
                                                           ENTERED
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20 <151> PRIOR FILING DATE: 1998-09-23
22 <150> PRIOR APPLICATION NUMBER: FR 97-12094
23 <151> PRIOR FILING DATE: 1997-09-24
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27 <170> SOFTWARE: FastSEQ for Windows Version 3.0
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30 <211> LENGTH: 2261
31 <212> TYPE: DNA
32 <213> ORGANISM: Triticum aestivum
34 <400> SEQUENCE: 1
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   ctcctqqaqa aqqccctcct qqqcctcttc qccqcqqcqq tqctqqccat cqccqtcqcc
                                                                           120
37
   aageteaceg geaagegett cegeeteece eetggeeeet eeggegeeee categtegge
                                                                           180
   aactggctgc aggtcggcga cgacctcaac caccgcaacc tgatgggcct ggccaagcgg
                                                                           240
38
                                                                           300
39
   ttcggcgagg tgttcctcct ccgcatgggc gtccgcaacc tggtggtcgt ctccagcccc
                                                                           360
40
   gagetegeca aggaggteet ecacacecag ggegtegagt teggeteeeg caceegeaac
                                                                           420
41
   gtcgtcttcg acatcttcac cggcaaggga caggacatgg tgttcacggt gtacggcgac
                                                                           480
42
   cactggcgca agatgcggcg gatcatgacg gtgcccttct tcaccaacaa ggtggtggcg
43
   cagaaccgcg tggggtggga ggaggaggcc cggctggtgg tggaggacct caaggccgac
                                                                           540
                                                                           600
44
   ccggcggcgg cgacggcggg cgtggtggtc cgccgcaggc tgcagctcat gatgtacaac
                                                                           660
45
   gacatgttcc gcatcatgtt cgaccgccgg ttcgagagcg tggccgaccc gctcttcaac
                                                                           720
   cagetcaagg cgctcaacgc cgagegcagc atcetetece agagettega ctacaactac
    ggcgacttca teccegteet eegeceette eteegeeget aceteaaceg etgeaceaac
                                                                           780
47
                                                                           840
48
   ctcaagacca agcggatgaa ggtgttcgag gaccacttcg tccagcagcg caaggaggcg
                                                                           900
49
   ttggagaaga cgggtgagat caggtgcgcc atggaccaca tcctggaagc cgaaaggaag
                                                                           960
   ggcgagatca accacgacaa cgtcctctac atcgtcgaga acatcaacgt cgcagccatc
                                                                          1020
    gagacgacgc tgtggtcgat cgagtggggc ctcgcggagc tggtgaacca cccggagatc
                                                                          1080
52
   cagcagaagc tgcgcgagga gatcgtcgcc gttctgggcg ccggcgtggc ggtgacggag
                                                                          1140
53
   coqqacctqq ageqectece ctacctqcaq teeqtggtga aggagacget cegecteege
                                                                          1200
54
   atggcaatcc cgctcctggt gccgcacatg aacctcagcg acgccaagct cgccggctac
                                                                          1260
55
   gacateceeg cegagtecaa gateetegte aacgeetggt teetegeeaa egaceecaag
                                                                          1320
56
   cggtgggtgc gcgccgatga gttcaggccg gagaggttcc tcgaggagga gaaggccgtc
                                                                          1380
57
    gaggeceacg geaacgattt ceggttegtg ceetteggeg teggeegeeg gagetgeece
                                                                          1440
   gggatcatcc tegegetgee cateategge atcaegeteg gaegeetggt geagaactte
                                                                          1500
59
    cagctgctgc cgccgccggg gcaggacaag atcgacacca ccgagaagcc cgggcagttt
                                                                          1560
60
    accaaccaga teeteaagea egecaceatt gtetgeaage caetegagge ttaactgaat
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tgaggtttcg gtcatgggcg cccgctgacg cggggagatg gatctatgca tgtgactgtg

1620



TIME: 14:35:10

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/713,794

Input Set : N:\Crf3\RULE60\09713794.txt
Output Set: N:\CRF3\06152001\I713794.raw

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		<220> FEATURE:				
W>		<223> OTHER INFORMATION:				
	80	<pre>&lt;400&gt; SEQUENCE: 2  atatatggat ccatggacgt cctcctcctg gagaaggc</pre>	38			
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		<211> LENGTH: 56				
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	88		56			
	90	<210> SEQ ID NO: 4				
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W>		<pre>&lt;213&gt; ORGANISM: Artificial Sequence &lt;220&gt; FEATURE:</pre>				
		<223> OTHER INFORMATION:				
		<400> SEQUENCE: 4				
	96	atatatggat ccatggatgt tttgttgttg gaaaaagctt tgttgggttt gttcgccgcg	60			
	97		71			
		<pre>&lt;210&gt; SEQ ID NO: 5 0 &lt;211&gt; LENGTH: 143</pre>				
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		2 <213> ORGANISM: Artificial Sequence				
		4 <220> FEATURE:				
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	104	4 <400> SEQUENCE: 5 5 atatatggat ccatggatgt tttgttgttg gaaaaagctt tgttgggttt gtttgctgct	60			
		6 gctgttttgg ctattgctgt tgctaaattg actggtaaaa gatttagatt gccaccaggt	120			
		7 ccatcoggog cocccatogt ogg	143			
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		0 <211> LENGTH: 39				
	11:	1 <212> TYPE: DNA				





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# RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/713,794

Input Set : N:\Crf3\RULE60\09713794.txt
Output Set: N:\CRF3\06152001\I713794.raw

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w>	114	<220> FEATURE:					
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•	115	tatatagaat tocagttaag ootogagtgg	cttgcagac			39	
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	118	<211> LENGTH: 1506					
	119	19 <212> TYPE: DNA					
		<213> ORGANISM: Artificial Sequence	е	•			
		<220> FEATURE:					
W>		<223> OTHER INFORMATION:					
		<400> SEQUENCE: 7					
•	123	atggatgttt tgttgttgga gaaggccctc				60	
	124	ategeegteg ceaageteae eggeaagege				120	
	125	cccatcgtcg gcaactggct gcaggtcggc				180	
	126	ctggccaagc ggttcggcga ggtgttcctc				240	
	127	gtetecagee eegagetege caaggaggte				300	
	128	cgcacccgca acgtcgtctt cgacatcttc				360	
	129	gtgtacggcg accactggcg caagatgcgg				420	
	130	aaggtggtgg cgcagaaccg cgtggggtgg				480	
	131	ctcaaggccg acceggegge ggegaeggeg				540	
	132	atgatgtaca acgacatgtt ccgcatcatg				600	
	133	ccgctcttca accagctcaa ggcgctcaac				660	
	134	gactacaact acggcgactt catccccgtc	-			720	
	135	cgctgcacca acctcaagac caagcggatg				780	
	136	cgcaaggagg cgttggagaa gacgggtgag				840	
	137	gccgaaagga agggcgagat caaccacgac				900	
	138	gtcgcagcca tcgagacgac gctgtggtcg				960	
	139	cacceggaga tecageagaa getgegegag				1020	
	140	gcggtgacgg agccggacct ggagcgcctc				1080	
	141	cteegeetee geatggeaat eeegeteetg				1140	
	142	ctcgccggct acgacatccc cgccgagtcc				1200	
	143	aacgacccca agcggtgggt gcgcgccgat				1260	
	144	gagaaggccg tcgaggccca cggcaacgat				1320	
	145	cggagetgee eegggateat eetegegetg				1380	
	146	gtgcagaact tccagctgct gccgccgccg				1440	
	147	cccgggcagt ttaccaacca gatcctcaag	cacgccacca	ttgtctgcaa	gecaetegag	1500 1506	
	148						
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	157	ategeogteg ceaageteac eggeaagege				120	
	158	cccatcgtcg ccaagetcae eggeaagege	gacgacctca	accaccacaa	cctgatgggc	180	
	159		ctccacataa	acatecacaa	cctaataatc	240	
	100	Seggeodade ggeoogdega ggegeoode	g-u-cyg	, , , , , , , , , , , , , , , , , , ,		2.5	





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### RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/713,794

Input Set : N:\Crf3\RULE60\09713794.txt
Output Set: N:\CRF3\06152001\1713794.raw

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	161	cgcacccgca	acgtcgtctt	cgacatcttc	accggcaagg	gacaggacat	ggtgttcacg	360	
	162	gtgtacggcg	accactggcg	caagatgcgg	cggatcatga	cggtgccctt	cttcaccaac	420	
	163	aaggtggtgg	cgcagaaccg	cgtggggtgg	gaggaggagg	cccggctggt	ggtggaggac	480	
	164	ctcaaggccg	acccggcggc	ggcgacggcg	ggcgtggtgg	tccgccgcag	gctgcagctc	540	
	165	atgatgtaca	acgacatgtt	ccgcatcatg	ttcgaccgcc	ggttcgagag	cgtggccgac	600	
	166	ccgctcttca	accagctcaa	ggcgctcaac	gccgagcgca	gcatcctctc	ccagagcttc	660	
	167	gactacaact	acggcgactt	catccccgtc	ctccgcccct	tcctccgccg	ctacctcaac	720	
	1,68	cgctgcacca	acctcaagac	caagcggatg	aaggtgttcg	aggaccactt	cgtccagcag	780	
	169	cgcaaggagg	cgttggagaa	gacgggtgag	atcaggtgcg	ccatggacca	catcctggaa	840	
	170	gccgaaagga	agggcgagat	caaccacgac	aacgtcctct	acatcgtcga	gaacatcaac	900	
	171	gtcgcagcca	tcgagacgac	gctgtggtcg	atcgagtggg	gcctcgcgga	gctggtgaac	960	
	172	cacccggaga	tccagcagaa	gctgcgcgag	gagatcgtcg	ccgttctggg	cgccggcgtg	1020	
	173	gcggtgacgg	agccggacct	ggagcgcctc	ccctacctgc	agtccgtggt	gaaggagacg	1080	
	174	ctccgcctcc	gcatggcaat	cccgctcctg	gtgccgcaca	tgaacctcag	cgacgccaag	1140	
	175	ctcgccggct	acgacatccc	cgccgagtcc	aagatcctcg	tcaacgcctg	gttcctcgcc	1200	
	176	aacgacccca	agcggtgggt	gcgcgccgat	gagttcaggc	cggagaggtt	cctcgaggag	1260	
	177	gagaaggccg	tcgaggccca	cggcaacgat	ttccggttcg	tgcccttcgg	cgtcggccgc	1320	
	178	cggagctgcc	ccgggatcat	cctcgcgctg	cccatcatcg	gcatcacgct	cggacgcctg	1380	
	179	gtgcagaact	tccagctgct	gccgccgccg	gggcaggaca	agatcgacac	caccgagaag	1440	
	180	cccgggcagt	ttaccaacca	gatcctcaag	cacgccacca	ttgtctgcaa	gccactcgag	1500	
	181	gcttaa						1506	
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		6 <213> ORGANISM: Artificial Sequence							
•		<220> FEATUR							
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	190			tggtaaaaga				120	
	191			gcaggtcggc				180	
	192			ggtgttcctc				240	
	193			caaggaggtc				300	
	194			cgacatcttc				360	
	195			caagatgcgg				420	
	196			cgtggggtgg				480	
	197			ggcgacggcg				540	
	198	atgatgtaca	acgacatgtt	ccgcatcatg	ttcgaccgcc	ggttcgagag	cgtggccgac	600	

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gtcgcagcca tcgagacgac gctgtggtcg atcgagtggg gcctcgcgga gctggtgaac

cacceggaga tecageagaa getgegegag gagategteg eegttetggg egeeggegtg

200 gactacaact acggcgactt catccccgtc ctccgccct tcctccgccg ctacctcaac

201 cgctgcacca acctcaagac caagcggatg aaggtgttcg aggaccactt cgtccagcag

202 cgcaaggagg cgttggagaa gacgggtgag atcaggtgcg ccatggacca catcctggaa 203 gccgaaagga agggcgagat caaccacgac aacgtcctct acatcgtcga gaacatcaac

660 720

780

840

900 960

1020

W-->

199

204

205





TIME: 14:35:10

# RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/713,794

Input Set : N:\Crf3\RULE60\09713794.txt
Output Set: N:\CRF3\06152001\I713794.raw

217	gagaaggccg cggagctgcc gtgcagaact	H: 2181	cggcaacgat cctcgcgctg gccgccgccg	ttccggttcg cccatcatcg gggcaggaca	tgcccttcgg gcatcacgct agatcgacac	cgtcggccgc cggacgcctg caccgagaag	1260 1320 1380 1440 1500 1506	
219	<213> ORGANISM: Triticum aestivum							
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223		gcgtacgtac					120	
224	gggacgtggg	cggtggtggt	gtcggcggtg	gccgcgtaca	tggcgtggtt	ctggcggatg	180	
225	tcccgcgggc	tgcgcgggcc	gcgggtttgg	cccgtgctcg	gcagcctgcc	gggcctggtg	240	
226	cagcacgccg	aggacatgca	cgagtggatc	gccggcaacc	tgcgccgcgc	gggcggcacg	300	
227		gcatcttcgc					360	
228		cgcgcaacct					420	
229		ggcacggcgt				-	480	
230		ggctcgcgca					540	
231		tgtcccgctg					600	
232		ccaagggcaa					660	
233		tctgcggcct					720	
234		agttcgcctc					. 780	
235		agttcctgtg					840	
236		gcatggccca					900	
237		ccgccggcaa					960	
238		tgcggaaggg					1020	
239		ccggccgcga					1080	
240		ctgcggtgga					1140	
241		cccatgaccc					1200	
242		tctacctcaa					1260	
243		ccaagcacgt					1320	
244		cggtcaccta					1380	
245		tcgagttccg					1440	
246		cgtacaagtt					1500	
247		acctgcagat					1560 1620	
248		cgggccaccg					1680	
249 250		tggaggtacg					1740	
251		gcgccgccac					1800	
251		ggcacgcgcc					1860	
252		tgtagatagg					1920	
254		ttgaagccac					1980	
255		atcacaacac					2040	
255		gggtgcatgg					2100	
257		gtgattgtag ctcggtgttg					2160	
257		gatgattttt	-	Catagecade	taggetatte	tattetatte	2181	
	<210> SEQ II							





TIME: 14:35:11

### VERIFICATION SUMMARY

PATENT APPLICATION: US/09/713,794

Input Set : N:\Crf3\RULE60\09713794.txt
Output Set: N:\CRF3\06152001\I713794.raw

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